

n/a

CRF Error Corrected by the STIC System Branch

Serial Number:

09/051,685

CRF Processing Date:

Edited by:

Verified by: (STIC staff)

1693
10/21/98**ENTERED**

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically:
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: _____
- ☒ Deleted extra, invalid, headings used by an applicant, specifically:
"RELATED" removed w/ PRIOR
- ☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as _____
- ☐ Inserted mandatory headings, specifically: _____
- ☐ Corrected an obvious error in the response, specifically: _____
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: _____
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted **ending** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- ☐ Other: _____

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/051,685DATE: 10/25/98
TIME: 16:09:07

INPUT SET: S29297.raw

This Raw Listing contains the General
Information Section and up to the first 5 pages.

ENTERED

SEQUENCE LISTING

(1) General Information:

(i) APPLICANT: University of Nebraska Board of Regents

(ii) TITLE OF INVENTION: Compositions and Methods for Enhancing
Immune Responses Mediated by Antigen-Presenting Cells

(iii) NUMBER OF SEQUENCES: 11

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: Dann, Dorfman, Herrell and Skillman
(B) STREET: 1601 Market Street Suite 720
(C) CITY: Philadelphia
(D) STATE: PA
(E) COUNTRY: USA
(F) ZIP: 19103-2307

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Floppy disk
(B) COMPUTER: IBM PC compatible
(C) OPERATING SYSTEM: PC-DOS/MS-DOS
(D) SOFTWARE: PatentIn Release #1.0, Version #1.30

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: 09/051,685
(B) FILING DATE: 17-APRIL-1998
(C) CLASSIFICATION:

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: PCT US96/16825
(B) FILING DATE: 18-OCT-1996

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: 60/005,727
(B) FILING DATE: 20-OCT-1995

(viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: Reed, Janet E.
(B) REGISTRATION NUMBER: 36,252
(C) REFERENCE/DOCKET NUMBER: UNMC 63102US

(ix) TELECOMMUNICATION INFORMATION:

(A) TELEPHONE: (215) 563-4100
(B) TELEFAX: (215) 563-4044

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/051,685DATE: 10/25/98
TIME: 16:09:09

INPUT SET: S29297.raw

47
48
49 (2) INFORMATION FOR SEQ ID NO:1:
50
51 (i) SEQUENCE CHARACTERISTICS:
52 (A) LENGTH: 10 amino acids
53 (B) TYPE: amino acid
54 (C) STRANDEDNESS: Not Relevant
55 (D) TOPOLOGY: Not Relevant
56
57 (ii) MOLECULE TYPE: peptide
58
59 (iii) HYPOTHETICAL: NO
60
61 (iv) ANTI-SENSE: NO
62
63
64 (ix) FEATURE:
65 (A) NAME/KEY: Modified-site
66 (B) LOCATION: 9
67 (D) OTHER INFORMATION: /note= "The alanine in position 9 is a
68 D-amino acid."
69
70
71 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
72
73 Tyr Ser Phe Lys Pro Met Pro Leu Ala Arg
74 1 5 10
75
76 (2) INFORMATION FOR SEQ ID NO:2:
77
78 (i) SEQUENCE CHARACTERISTICS:
79 (A) LENGTH: 19 amino acids
80 (B) TYPE: amino acid
81 (C) STRANDEDNESS: Not Relevant
82 (D) TOPOLOGY: Not Relevant
83
84 (ii) MOLECULE TYPE: peptide
85
86 (iii) HYPOTHETICAL: NO
87
88 (iv) ANTI-SENSE: NO
89
90
91 (ix) FEATURE:
92 (A) NAME/KEY: Modified-site
93 (B) LOCATION: 18
94 (D) OTHER INFORMATION: /note= "The alanine in the 18th
95 position is a D-amino acid."
96
97
98 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
99

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/051,685DATE: 10/25/98
TIME: 16:09:10

INPUT SET: S29297.raw

100 Tyr Lys Gln Gly Gly Phe Leu Gly Leu Tyr Ser Phe Lys Pro Met Pro
101 1 5 10 15
102

103 Leu Ala Arg
104
105
106
107

108 (2) INFORMATION FOR SEQ ID NO:3:

109 (i) SEQUENCE CHARACTERISTICS:
110 (A) LENGTH: 39 amino acids
111 (B) TYPE: amino acid
112 (C) STRANDEDNESS: Not Relevant
113 (D) TOPOLOGY: Not Relevant
114
115

116 (ii) MOLECULE TYPE: peptide
117

118 (iii) HYPOTHETICAL: NO
119

120 (iv) ANTI-SENSE: NO
121
122
123
124

125 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

126
127 His Gly Thr Val Ile Glu Ser Leu Glu Ser Leu Asn Asn Tyr Phe Asn
128 1 5 10 15
129

130 Phe Phe Gly Ile Asp Val Glu Glu Lys Ser Leu Phe Leu Asp Ile Trp
131 20 25 30
132

133 Arg Asn Trp Gln Lys Asp Gly
134 35
135
136
137

138 (2) INFORMATION FOR SEQ ID NO:4:

139 (i) SEQUENCE CHARACTERISTICS:
140 (A) LENGTH: 39 amino acids
141 (B) TYPE: amino acid
142 (C) STRANDEDNESS: Not Relevant
143 (D) TOPOLOGY: Not Relevant
144
145

146 (ii) MOLECULE TYPE: peptide
147

148 (iii) HYPOTHETICAL: NO
149

150 (iv) ANTI-SENSE: NO
151
152

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/051,685DATE: 10/25/98
TIME: 16:09:12

INPUT SET: S29297.raw

153

154

155 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

156

157 Gln Asp Pro Tyr Val Lys Glu Ala Glu Asn Leu Lys Lys Tyr Phe Asn

158 1 5 10 15

159

160 Ala Gly His Ser Asp Val Ala Asp Asn Gly Thr Leu Phe Leu Gly Ile

161 20 25 30

162

163 Leu Lys Asn Trp Lys Glu Glu

164 35

165

166

167

168 (2) INFORMATION FOR SEQ ID NO:5:

169

170 (i) SEQUENCE CHARACTERISTICS:

171 (A) LENGTH: 19 amino acids

172 (B) TYPE: amino acid

173 (C) STRANDEDNESS: Not Relevant

174 (D) TOPOLOGY: Not Relevant

175

176 (ii) MOLECULE TYPE: peptide

177

178 (iii) HYPOTHETICAL: NO

179

180 (iv) ANTI-SENSE: NO

181

182

183 (ix) FEATURE:

184 (A) NAME/KEY: Modified-site

185 (B) LOCATION: 9

186 (D) OTHER INFORMATION: /note= "The alanine in position 9 is a

187 D-amino acid."

188

189

190

191

192 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

193

194 Tyr Ser Phe Lys Pro Met Pro Leu Ala Arg Tyr Lys Gln Gly Gly Phe

195 1 5 10 15

196

197 Leu Gly Leu

198

199

200

201 (2) INFORMATION FOR SEQ ID NO:6:

202

203 (i) SEQUENCE CHARACTERISTICS:

204 (A) LENGTH: 9 amino acids

205 (B) TYPE: amino acid

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/051,685DATE: 10/25/98
TIME: 16:09:13

INPUT SET: S29297.raw

206 (C) STRANDEDNESS: Not Relevant
207 (D) TOPOLOGY: Not Relevant
208

209 (ii) MOLECULE TYPE: peptide
210

211 (iii) HYPOTHETICAL: NO
212

213 (iv) ANTI-SENSE: NO
214
215
216
217

218 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:
219

220 Tyr Lys Gln Gly Gly Phe Leu Gly Leu
221 1 5
222
223
224
225

226 (2) INFORMATION FOR SEQ ID NO:7:
227

228 (i) SEQUENCE CHARACTERISTICS:
229 (A) LENGTH: 20 amino acids
230 (B) TYPE: amino acid
231 (C) STRANDEDNESS: Not Relevant
232 (D) TOPOLOGY: Not Relevant
233

234 (ii) MOLECULE TYPE: peptide
235

236 (iii) HYPOTHETICAL: NO
237

238 (iv) ANTI-SENSE: NO
239
240
241
242

243 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:
244

245 Gly Val Thr Ser Ala Pro Asp Thr Arg Arg Ala Pro Gly Ser Thr Ala
246 1 5 10 15
247

248 Pro Pro Ala His
249 20
250
251
252

253 (2) INFORMATION FOR SEQ ID NO:8:
254

255 (i) SEQUENCE CHARACTERISTICS:
256 (A) LENGTH: 12 amino acids
257 (B) TYPE: amino acid
258 (C) STRANDEDNESS: Not Relevant

PAGE: 1

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/09/051,685

DATE: 10/25/98
TIME: 16:09:15

INPUT SET: S29297.raw

Line

Error

Original Text

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/051,685DATE: 10/21/98
TIME: 14:34:48

INPUT SET: S29297.raw

<p>This Raw Listing contains the General Information Section and up to the first 5 pages.</p>

Does Not Comply
Corrected Diskette Needed

SEQUENCE LISTING

(1) General Information:

(i) APPLICANT: University of Nebraska Board of Regents

(ii) TITLE OF INVENTION: Compositions and Methods for Enhancing Immune Responses Mediated by Antigen-Presenting Cells

(iii) NUMBER OF SEQUENCES: 11

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: Dann, Dorfman, Herrell and Skillman
 (B) STREET: 1601 Market Street Suite 720
 (C) CITY: Philadelphia
 (D) STATE: PA
 (E) COUNTRY: USA
 (F) ZIP: 19103-2307

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Floppy disk
 (B) COMPUTER: IBM PC compatible
 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: 09/051,685
 (B) FILING DATE: 17-APRIL-1998
 (C) CLASSIFICATION:

PRIOR
(vii) RELATED APPLICATION DATA:

(A) APPLICATION NUMBER: PCT US96/16825
 (B) FILING DATE: 18-OCT-1996

P100
(vii) RELATED APPLICATION DATA:

(A) APPLICATION NUMBER: 60/005,727
 (B) FILING DATE: 20-OCT-1995

(viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: Reed, Janet E.
 (B) REGISTRATION NUMBER: 36,252
 (C) REFERENCE/DOCKET NUMBER: UNMC 63102US

(ix) TELECOMMUNICATION INFORMATION:

(A) TELEPHONE: (215) 563-4100
 (B) TELEFAX: (215) 563-4044

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/051,685DATE: 10/21/98
TIME: 14:34:49

INPUT SET: S29297.raw

47
48
49 (2) INFORMATION FOR SEQ ID NO:1:
50
51 (i) SEQUENCE CHARACTERISTICS:
52 (A) LENGTH: 10 amino acids
53 (B) TYPE: amino acid
54 (C) STRANDEDNESS: Not Relevant
55 (D) TOPOLOGY: Not Relevant
56
57 (ii) MOLECULE TYPE: peptide
58
59 (iii) HYPOTHETICAL: NO
60
61 (iv) ANTI-SENSE: NO
62
63
64 (ix) FEATURE:
65 (A) NAME/KEY: Modified-site
66 (B) LOCATION: 9
67 (D) OTHER INFORMATION: /note= "The alanine in position 9 is a
68 D-amino acid."
69
70
71 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
72
73 Tyr Ser Phe Lys Pro Met Pro Leu Ala Arg
74 1 5 10
75
76 (2) INFORMATION FOR SEQ ID NO:2:
77
78 (i) SEQUENCE CHARACTERISTICS:
79 (A) LENGTH: 19 amino acids
80 (B) TYPE: amino acid
81 (C) STRANDEDNESS: Not Relevant
82 (D) TOPOLOGY: Not Relevant
83
84 (ii) MOLECULE TYPE: peptide
85
86 (iii) HYPOTHETICAL: NO
87
88 (iv) ANTI-SENSE: NO
89
90
91 (ix) FEATURE:
92 (A) NAME/KEY: Modified-site
93 (B) LOCATION: 18
94 (D) OTHER INFORMATION: /note= "The alanine in the 18th
95 position is a D-amino acid."
96
97
98 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
99

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/051,685DATE: 10/21/98
TIME: 14:34:50

INPUT SET: S29297.raw

100 Tyr Lys Gln Gly Gly Phe Leu Gly Leu Tyr Ser Phe Lys Pro Met Pro
101 1 5 10 15
102
103 Leu Ala Arg
104
105
106
107

(2) INFORMATION FOR SEQ ID NO:3:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 39 amino acids
(B) TYPE: amino acid
(C) STRANDEDNESS: Not Relevant
(D) TOPOLOGY: Not Relevant

(ii) MOLECULE TYPE: peptide

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

His Gly Thr Val Ile Glu Ser Leu Glu Ser Leu Asn Asn Tyr Phe Asn
1 5 10 15
Phe Phe Gly Ile Asp Val Glu Glu Lys Ser Leu Phe Leu Asp Ile Trp
20 25 30
Arg Asn Trp Gln Lys Asp Gly
35

(2) INFORMATION FOR SEQ ID NO:4:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 39 amino acids
(B) TYPE: amino acid
(C) STRANDEDNESS: Not Relevant
(D) TOPOLOGY: Not Relevant

(ii) MOLECULE TYPE: peptide

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/051,685DATE: 10/21/98
TIME: 14:34:51

INPUT SET: S29297.raw

153

154

155 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

156

157 Gln Asp Pro Tyr Val Lys Glu Ala Glu Asn Leu Lys Lys Tyr Phe Asn

158 1 5 10 15

159

160 Ala Gly His Ser Asp Val Ala Asp Asn Gly Thr Leu Phe Leu Gly Ile

161 20 25 30

162

163 Leu Lys Asn Trp Lys Glu Glu

164 35

165

166

167

168 (2) INFORMATION FOR SEQ ID NO:5:

169

170 (i) SEQUENCE CHARACTERISTICS:

171 (A) LENGTH: 19 amino acids

172 (B) TYPE: amino acid

173 (C) STRANDEDNESS: Not Relevant

174 (D) TOPOLOGY: Not Relevant

175

176 (ii) MOLECULE TYPE: peptide

177

178 (iii) HYPOTHETICAL: NO

179

180 (iv) ANTI-SENSE: NO

181

182

183 (ix) FEATURE:

184 (A) NAME/KEY: Modified-site

185 (B) LOCATION: 9

186 (D) OTHER INFORMATION: /note= "The alanine in position 9 is a

187 D-amino acid."

188

189

190

191

192 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

193

194 Tyr Ser Phe Lys Pro Met Pro Leu Ala Arg Tyr Lys Gln Gly Gly Phe

195 1 5 10 15

196

197 Leu Gly Leu

198

199

200

201 (2) INFORMATION FOR SEQ ID NO:6:

202

203 (i) SEQUENCE CHARACTERISTICS:

204 (A) LENGTH: 9 amino acids

205 (B) TYPE: amino acid

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/051,685DATE: 10/21/98
TIME: 14:34:52

INPUT SET: S29297.raw

206 (C) STRANDEDNESS: Not Relevant
207 (D) TOPOLOGY: Not Relevant
208

209 (ii) MOLECULE TYPE: peptide
210

211 (iii) HYPOTHETICAL: NO
212

213 (iv) ANTI-SENSE: NO
214
215
216
217

218 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:
219

220 Tyr Lys Gln Gly Gly Phe Leu Gly Leu
221 1 5
222
223
224
225

226 (2) INFORMATION FOR SEQ ID NO:7:
227

228 (i) SEQUENCE CHARACTERISTICS:
229 (A) LENGTH: 20 amino acids
230 (B) TYPE: amino acid
231 (C) STRANDEDNESS: Not Relevant
232 (D) TOPOLOGY: Not Relevant
233

234 (ii) MOLECULE TYPE: peptide
235

236 (iii) HYPOTHETICAL: NO
237

238 (iv) ANTI-SENSE: NO
239
240
241
242

243 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:
244

245 Gly Val Thr Ser Ala Pro Asp Thr Arg Arg Ala Pro Gly Ser Thr Ala
246 1 5 10 15
247

248 Pro Pro Ala His
249 20
250
251
252

253 (2) INFORMATION FOR SEQ ID NO:8:
254

255 (i) SEQUENCE CHARACTERISTICS:
256 (A) LENGTH: 12 amino acids
257 (B) TYPE: amino acid
258 (C) STRANDEDNESS: Not Relevant

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/09/051,685DATE: 10/21/98
TIME: 14:34:53*INPUT SET: S29297.raw*

Line	Error	Original Text
31	Unknown or Misplaced Identifier	(vii) RELATED APPLICATION DATA:
32	Wrong application Serial Number	(A) APPLICATION NUMBER: PCT US96/16825
35	Unknown or Misplaced Identifier	(vii) RELATED APPLICATION DATA:
36	Wrong application Serial Number	(A) APPLICATION NUMBER: 60/005,727